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HEAT ENTRAPMENT EFFECTS WITHIN LIQUID ACQUISITION DEVICES



Heat Entrapment Effects Within Liquid Acquisition Devices

NASA Technical Reports Server (NTRS), et al., W. M.B. Duval BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 40 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.We introduce a model problem to address heat entrapment effects or the local accumulation of thermal energy within liquid acquisition devices. We show that the parametric space consists of six parameters, namely the Rayleigh and Prandtl numbers, the aspect ratio, and heat flux ratios for the bottom, side, and top boundaries of the enclosure. For the range of Ra considered 1...

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